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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,264	01/21/2004	Kia Silverbrook	RRA11US	1034

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SILVERBROOK RESEARCH PTY LTD
393 DARLING STREET
BALMAIN, 2041
AUSTRALIA

EXAMINER	
FIDLER, SHELBY LEE	
ART UNIT	PAPER NUMBER
2861	

MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/760,264	SILVERBROOK, KIA	
	Examiner	Art Unit	
	SHELBY FIDLER	2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *11 December 2008*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-4* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-4* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Responsive Office Action

This Office Action is responsive to Applicant's remarks and amendments filed 12/11/2008.

Claim Objections

Claim 4 recites the limitation "the elongate array of nozzles" (line). There is insufficient antecedent basis for this limitation in the claim.

Claims 1 and 4 are objected to because of the following informalities: please change "and supply printing fluid" (line 9 of both claims 1 and 4) to "and supplying printing fluid" to place the claims in proper sentence format. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolash et al. (US 6183063 B1) in view of Murray (US 6474776 B1).

Regarding claim 1:

Bolash et al. disclose a printer cartridge (11) for removable insertion in an inkjet printer (col. 3, lines 66-67), the printer cartridge comprising:

a printing fluid storage (col. 7, lines 23-24);

a pagewidth printhead (12) in fluid communication with the printing fluid storage (), the pagewidth printhead having an elongate array of nozzles (50) extending transverse to a media feed direction (Figs. 1A, 4A), and further having a plurality of nozzle chambers (56) for holding printing fluid received from the printing fluid storage and supplying printing fluid to a nozzle (54) of the elongate array of nozzles (col. 6, lines 44-57); and

a first electrical connector (electrical connector adjacent to attachment device 20) in electrical communication with the printhead and disposed adjacent a first end of the elongate array of nozzles for releasably engaging a first corresponding connector of the inkjet printer (col. 4, lines 1-11).

Bolash et al. do not expressly disclose that the first electrical connector engages with the first corresponding connector with a contact force that is parallel to the longitudinal extent of the elongate array of nozzles such that a longitudinally compressive force acts on the printer cartridge when it is installed in the printer.

However, Murray discloses a printer cartridge (10) having a first electrical connector (16) in communication with the printhead (col. 5, lines 26-29) and disposed adjacent a first end of an elongate array of nozzles (Fig. 1), wherein the first electrical connector engages with a first corresponding connector of a printer with a contact force that is parallel to the longitudinal extent of the elongate array of nozzles such that a

longitudinally compressive force acts on the printer cartridge when it is installed in the printer (col. 7, lines 13-20 & Fig. 5).

Therefore, at the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Bolash et al.'s printer cartridge to place the cartridge's electrical connectors along the ends of the printer cartridge, such as taught by Murray. Motivation for doing so, as provided by Murray, is to be able to provide electrical connection to a plurality of nozzle arrays, rather than a single large nozzle array, so as to reduce manufacturing costs of the cartridge (col. 3, lines 5-34).

Regarding claim 2:

Bolash et al.'s modified printer cartridge comprises all the limitations of claim 1, and **Bolash et al. also disclose** that the cartridge includes a second electrical connector (electrical connection adjacent to attachment device 22) disposed adjacent a second end of the elongate array of nozzles for releasably engaging a second corresponding connector of the inkjet printer (col. 4, lines 1-11), and **Murray also discloses** that the electrical connectors (16, 18) engage the corresponding connectors (43, 44) with a contact force that is parallel to the longitudinal extent of the elongate array of nozzles (col. 7, lines 7-20 & Fig. 5).

Regarding claims 3 and 4:

Bolash et al.'s modified printer cartridge comprises all the limitations of claim 2, and **Bolash et al. also disclose** that the printing fluid storage, pagewidth printhead, and first and second electrical connectors are attached to a body of the printer cartridge (col. 3, lines 24-31 & col. 4, lines 1-9).

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. Please see the above obvious modification of Bolash et al.'s printer cartridge, which has a pagewidth printhead that has a plurality of nozzle chambers for holding printing fluid received from the printing fluid storage and supplying printing fluid to a nozzle of an elongate array of nozzles.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communication with the USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHELBY FIDLER whose telephone number is (571)272-8455. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on (571) 272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MATTHEW LUU/
Supervisory Patent Examiner, Art Unit 2861

/Shelby Fidler/
Examiner, Art Unit 2861